

FRASER BROTHERS,

BROMLEY-BY-BOW, LONDON, E.,

AND

98, COMMERCIAL ROAD EAST,

MANUFACTURERS OF EVERY DESCRIPTION

OF

LANCASHIRE AND CORNISH STEAM BOILERS,

SPECIAL COMPOUND STEAM BOILERS,

MARINE AND LOCOMOTIVE BOILERS,

VERTICAL STEAM BOILERS,

STEAM-LAUNCH BOILERS,

FEED-WATER HEATERS AND CONDENSERS,

GIRDERS, BRIDGES, AND ROOFS,

CABLE-TANKS, BUOYS, &c., for Telegraph Construction.

For Particulars and Prices apply at the Works,

BROMLEY-BY-BOW.

IRON TANKS FOR STORING WATER, OIL, VARNISH, &c.

COOKING APPARATUS

FOR CLUBS, HOSPITALS, WORKHOUSES, PUBLIC BUILDINGS, STEAM AND SAILING
VESSELS, &c.

HEATING AND VENTILATING APPARATUS,

WASHING AND DRYING APPARATUS,

DISINFECTING APPARATUS (PATENT).

STEAM FITTINGS AND APPARATUS OF EVERY DESCRIPTION FOR MANUFACTURING PURPOSES.

For Particulars and Prices apply at the Works,

98, COMMERCIAL ROAD EAST.

CORNISH STEAM BOILERS.

(SEE PAGE 510.)

H.-P.	Diam.	Length.	Diameter of Furnace.	Casing.	Flue.	Ends.	Steam Chest.	APPROXIMATE WEIGHT OF BOILER AND FURNACE.				APPROXIMATE PRICE.					
								tons.	cwt.	qrs.	lb.	BOILER AND FURNACE.			STEAM FITTINGS.		
4	ft. in.	ft.	in.	in.	in.	in.	in. in.	tons.	cwt.	qrs.	lb.	£	s.	d.	£	s.	d.
6	4 0	8	24	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	24 X 21	1	15	0	0	55	0	0	11	0	0
8	4 3	10	26	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	24 " 21	2	3	0	0	68	0	0	12	0	0
10	4 3	12	26	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	26 " 22	2	16	2	0	87	10	0	12	15	0
12	4 6	14	28	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	26 " 22	3	6	2	0	100	0	0	13	15	0
14	4 9	15	29	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	27 " 24	3	15	0	0	110	0	0	14	17	6
16	5 0	16	30	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	27 " 24	4	1	0	0	122	10	0	16	0	0
18	5 0	17	30	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	30 " 24	4	6	0	0	127	10	0	17	10	0
20	5 2	20	33	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	30 " 24	5	5	0	0	147	10	0	18	15	0
22	5 6	20	34	$\frac{1}{8}$ full	$\frac{1}{8}$	$\frac{1}{8}$	30 " 27	6	0	0	0	160	0	0	19	10	0
25	5 6	25	34	$\frac{1}{8}$ "	$\frac{1}{8}$	$\frac{1}{8}$	30 " 30	7	4	2	0	185	0	0	21	10	0

LANCASHIRE STEAM BOILERS.

(SEE PAGE 508.)

H.-P.	Diam.	Length.	Furnace Tubes.	Casing.	Flue.	Ends.		APPROXIMATE WEIGHT OF BOILER AND FURNACE.				APPROXIMATE PRICE.					
								tons.	cwt.	qrs.	lb.	BOILER AND FURNACE.			STEAM FITTINGS.		
30	ft. in.	ft.	in.	in.	in.	in.	With 4 Circulating Tubes.	tons.	cwt.	qrs.	lb.	£	s.	d.	£	s.	d.
40	6 3	20	Two 28	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 8	8	10	0	0	250	0	0	27	0	0
50	7 0	24	" 33	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 10	11	5	0	0	320	0	0	29	0	0
60	7 6	27	" 36	$\frac{1}{8}$ bare	$\frac{1}{8}$	$\frac{1}{8}$	" 12	14	15	0	0	385	0	0	32	0	0
	7 8	30	" 38	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	" 12	16	0	0	0	440	0	0	35	0	0

FRASER'S SPECIAL COMPOUND BOILERS.

(SEE PAGE 509.)

H.-P.	Diam.	Length.	Furnace.					APPROXIMATE WEIGHT OF BOILER AND FURNACE.				APPROXIMATE PRICE.							
												BOILER AND FURNACE.			STEAM FITTINGS.				
	ft.	in.	ft.	in.	in.	With 3 Conical and 34 3½-in. Loco. Tubes				tons	cwt.	qrs.	lb.	£	s.	d.	£	s.	d.
20	5	9	15	0	Two 25½					6	0	0	0	210	0	0	25	0	0
30	6	3	16	6	" 28	"	4	"	44	3½	"	"	7	10	0	0	250	0	0
40	6	9	18	0	" 30	"	4	"	55	3½	"	"	9	15	0	0	320	0	0
50	7	3	21	0	" 34	"	5	"	66	3½	"	"	11	10	0	0	380	0	0
60	7	6	23	0	" 36	"	7	"	75	3½	"	"	13	10	0	0	430	0	0

Substance of Plates same as in Lancashire Boilers.

N.B.—We draw particular attention to the above Compound Boilers. They are designed with extra and more efficient heating surface with the special view of Economy in Fuel.

FRASER BROTHERS,

BROMLEY-BY-BOW, LONDON, E.

VERTICAL STEAM BOILERS.

(SEE PAGES 511 and 512.)

Prices vary from £8 to £12 per Horse-power, according to Design and Requirements.

All our Boilers are constructed of Best Staffordshire Plates (of *first-class brands*), with "Lowmoor" or "Bowling" over Furnaces, and so arranged that rivets and laps are below the fire bars. They are most carefully made, and designed to stand a working Steam pressure of 50 lb. per square inch, and tested by Hydraulic pressure to 100 lb. per square inch before leaving our Works. (Certificate given.)

For higher pressures we recommend stiffening belts, or flanged and welded joints to tubes, planed edges to plates, double riveted casings, and the holes in plates drilled instead of punched.

Conical circulating tubes of "Lowmoor" iron are recommended in furnace tubes of Lancashire and Cornish Boilers of above 12 horse-power.

The steam fittings and mountings consist of Two Water Gauges, or Water Gauge and Gauge Cocks, Pair of Lever Safety Valves, with graduated levers and weights, Blow-off Cock, Injection Valve, Bourdon's Dial Pressure-Gauge, Damper and frame, Chequered front foot plate and frame, and two special soot doors and frames.

Special brick seating blocks are kept in stock for all sized Steam Boilers, and can be supplied on receipt of order.

Fusible Plugs fitted to crowns of furnaces if desired.

Anti-Priming Pipes are fitted, instead of Steam Chests, if preferred, without additional charge.

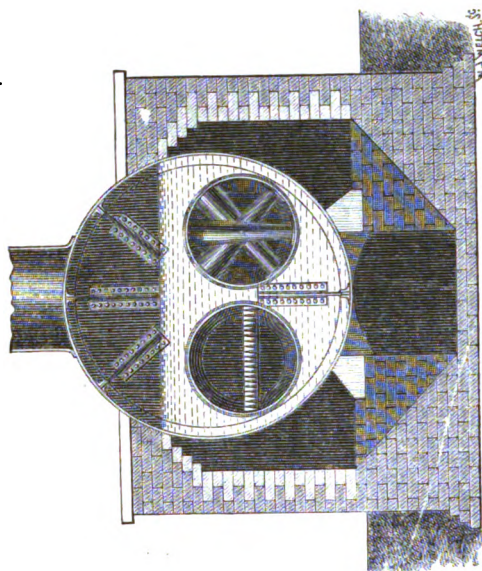
The whole of the Machinery employed in the manufacture of Steam Boilers at these Works is of the most modern design, which enables us to construct this class of work in the best manner and finish.

FRASER BROTHERS,

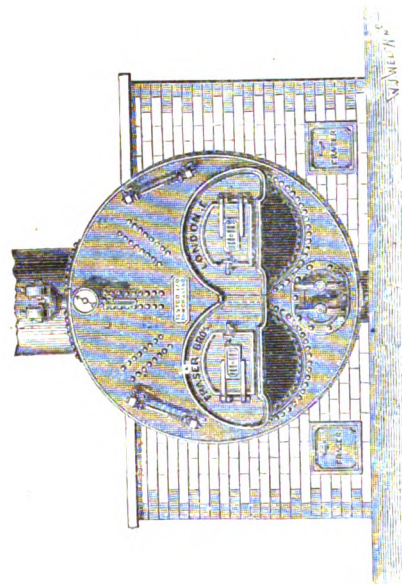
BROMLEY-BY-BOW, LONDON, E.

3 T 2

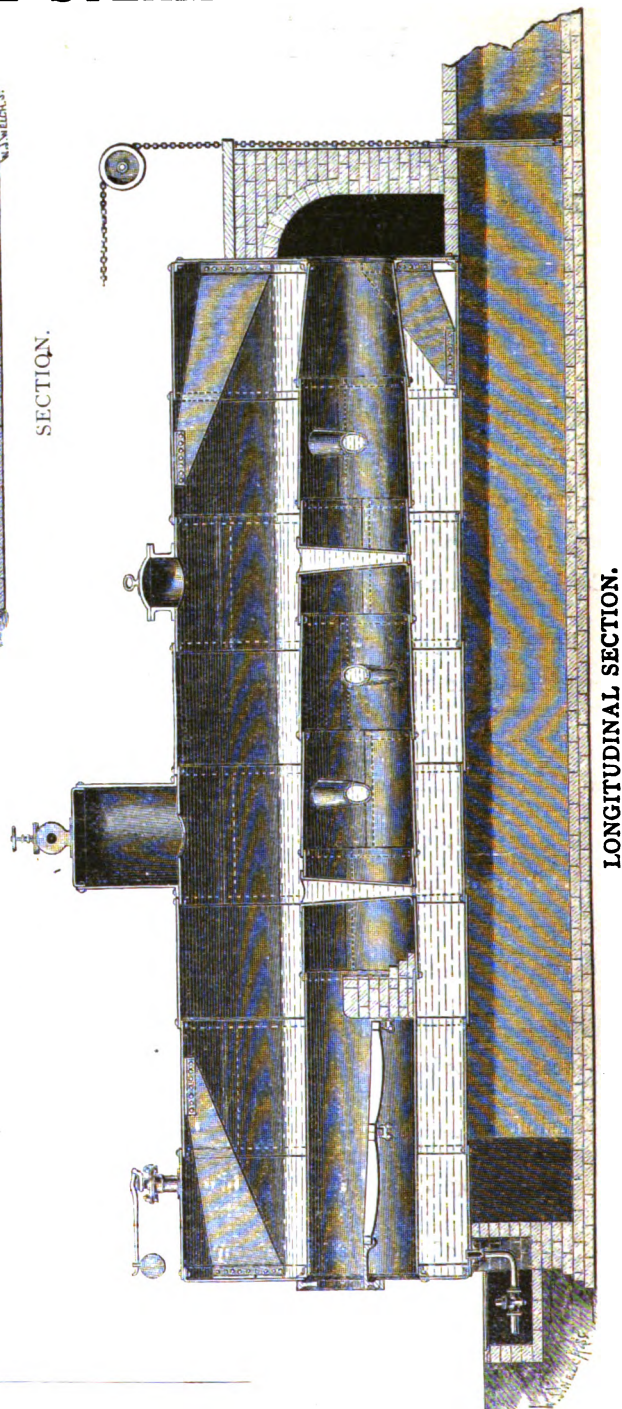
LANCASHIRE STEAM BOILER.



ELEVATION.



SECTION.

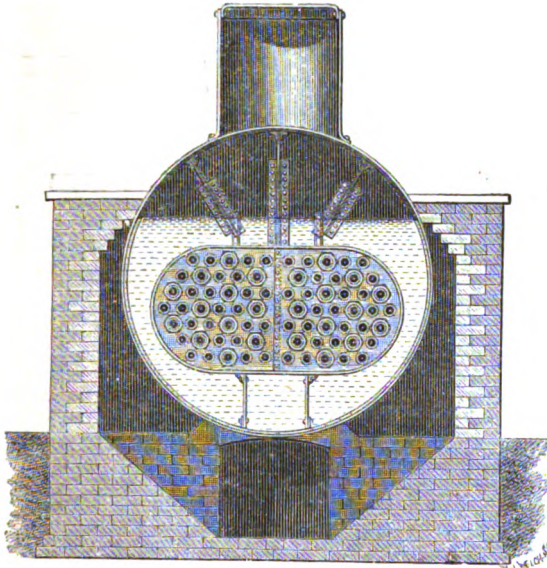


LONGITUDINAL SECTION.

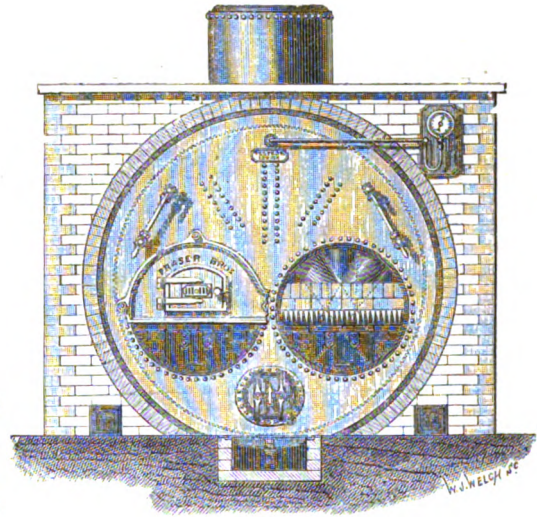
SEE PAGE 506, OR FOR FULL PARTICULARS, TO
FRASER BROTHERS,
 BROMLEY-BY-BOW, LONDON, E.

FRASER'S SPECIAL COMPOUND BOILER.

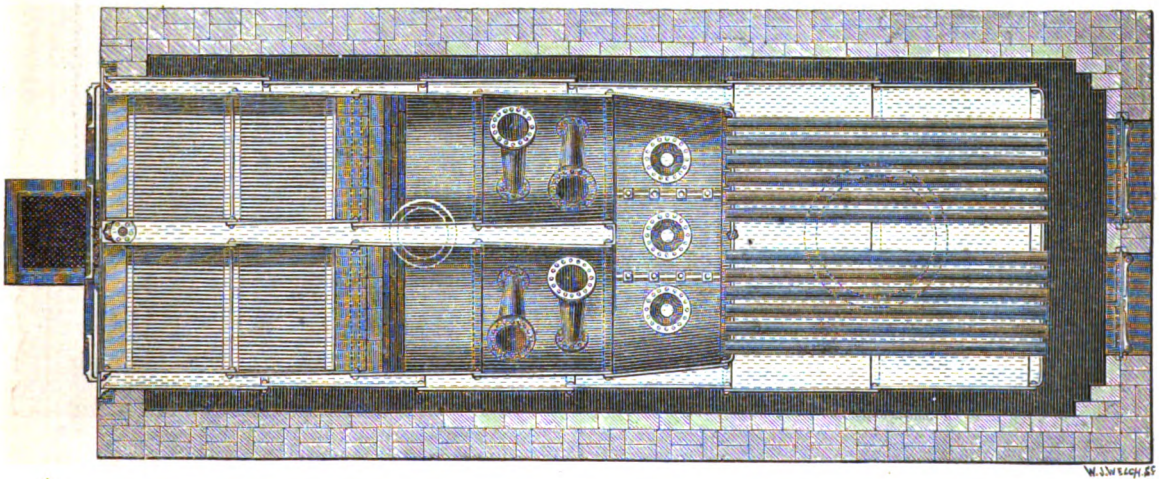
STRONGLY RECOMMENDED FOR ECONOMY OF FUEL.



SECTION.



ELEVATION.



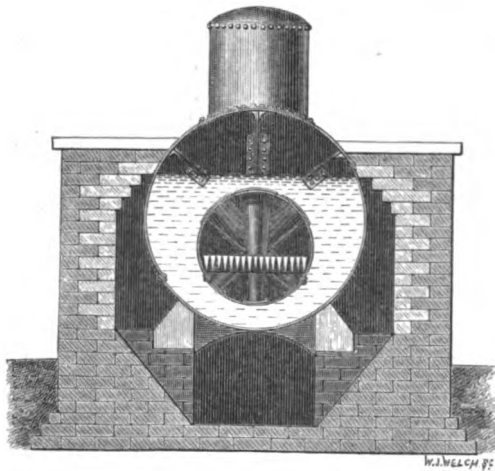
SECTIONAL PLAN.

SEE PAGE 506, OR FOR FULL PARTICULARS, TO

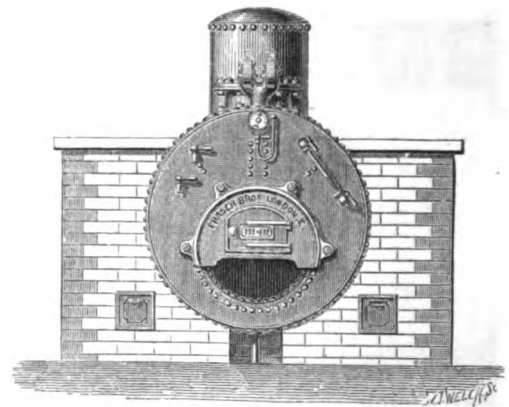
FRASER BROTHERS,

BROMLEY-BY-BOW, LONDON, E.

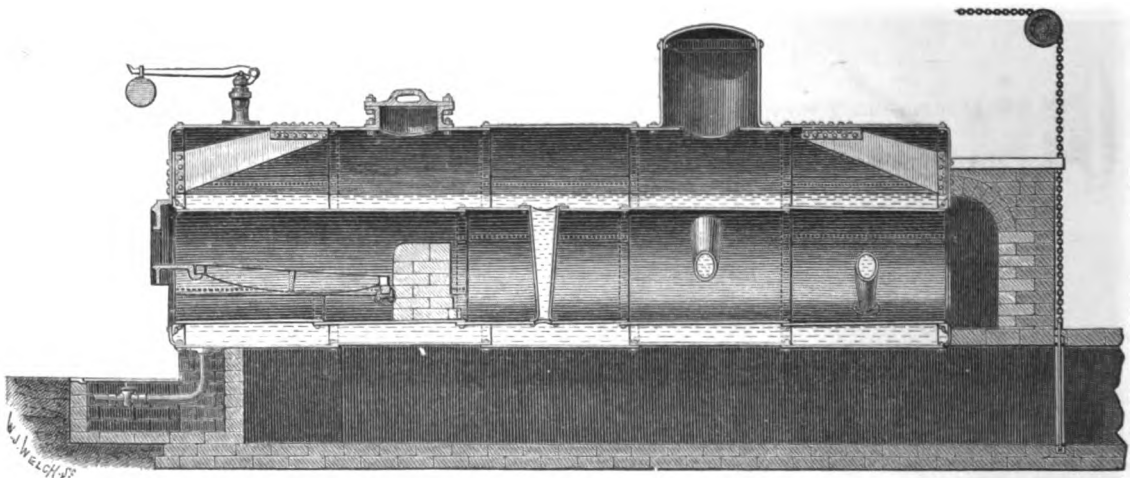
CORNISH STEAM BOILER.



SECTION.



ELEVATION.

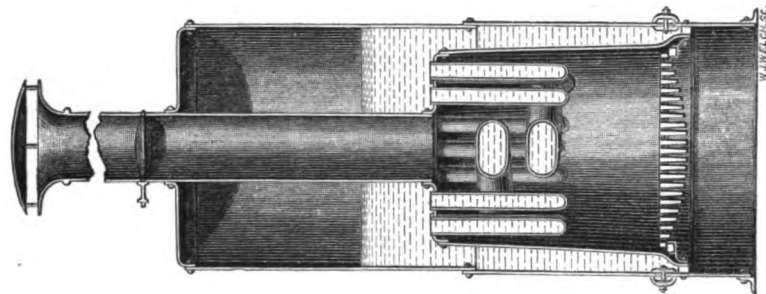


LONGITUDINAL SECTION.

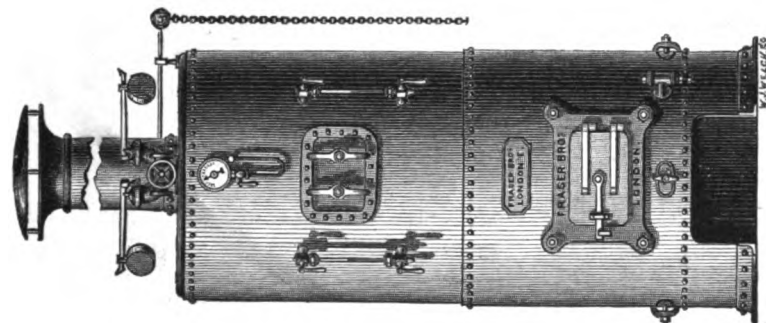
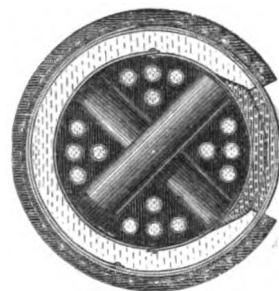
SEE PAGE 506, OR FOR FULL PARTICULARS, TO

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BROMLEY-BY-BOW, LONDON, E.

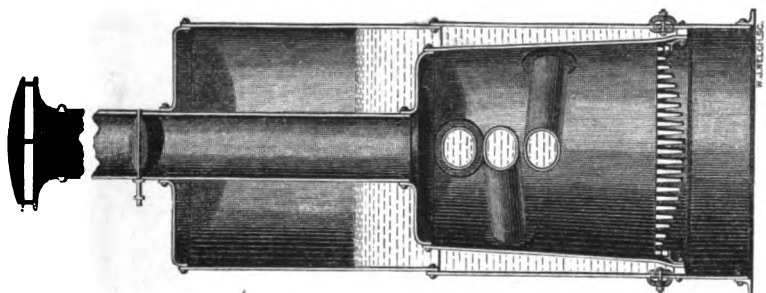
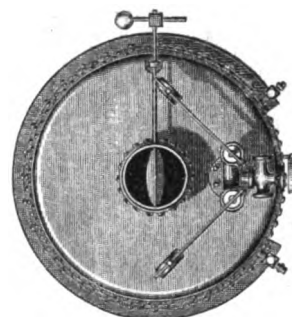
VERTICAL STEAM BOILERS.



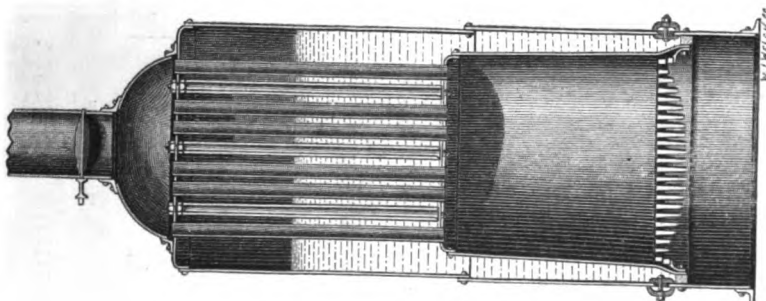
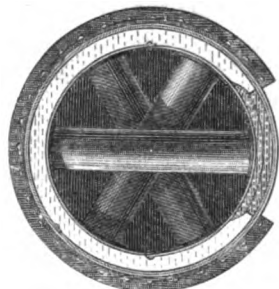
CROSS AND PENDANT TUBES.



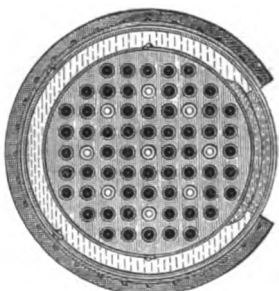
ELEVATION.



CROSS TUBES.



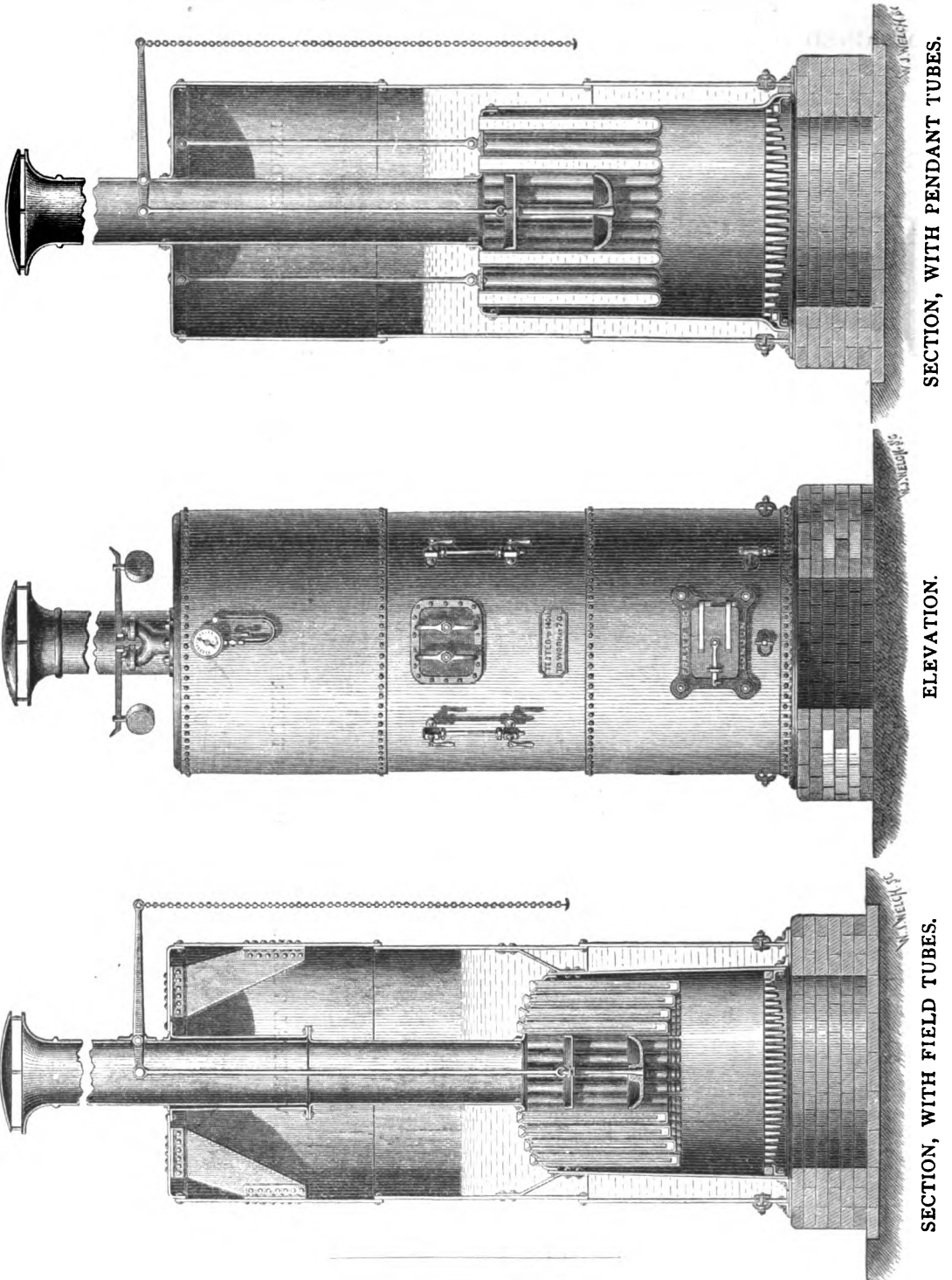
VERTICAL TUBES.



SEE PAGE 507, OR FOR FULL PARTICULARS, TO

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BROMLEY-BY-BOW, LONDON, E.

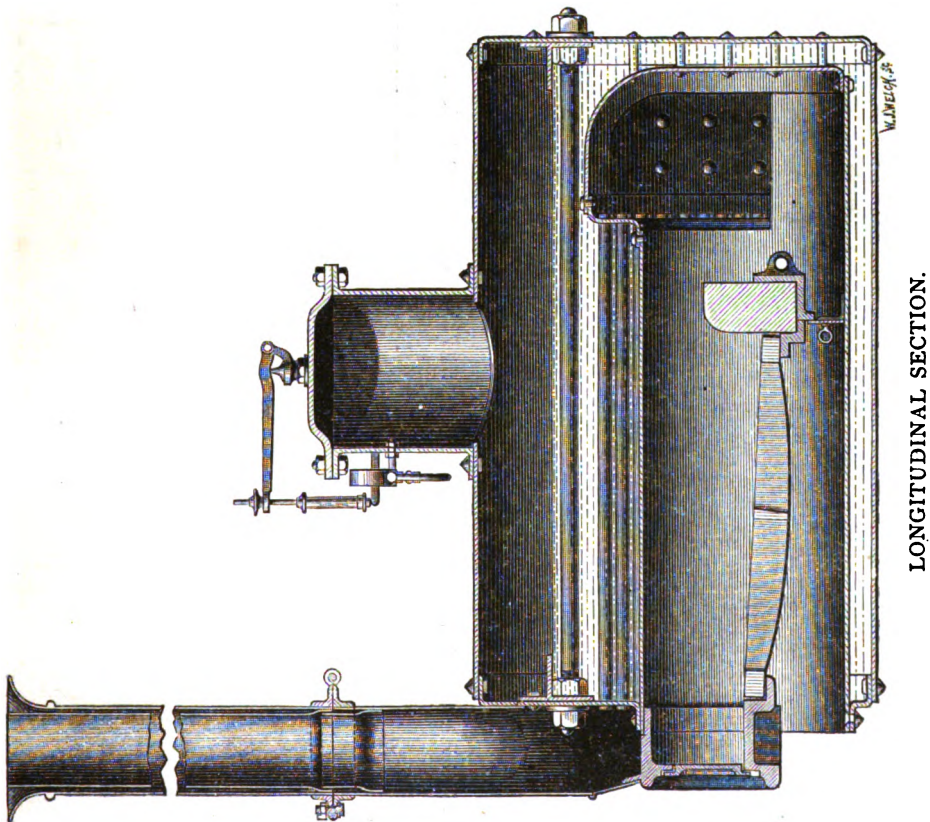
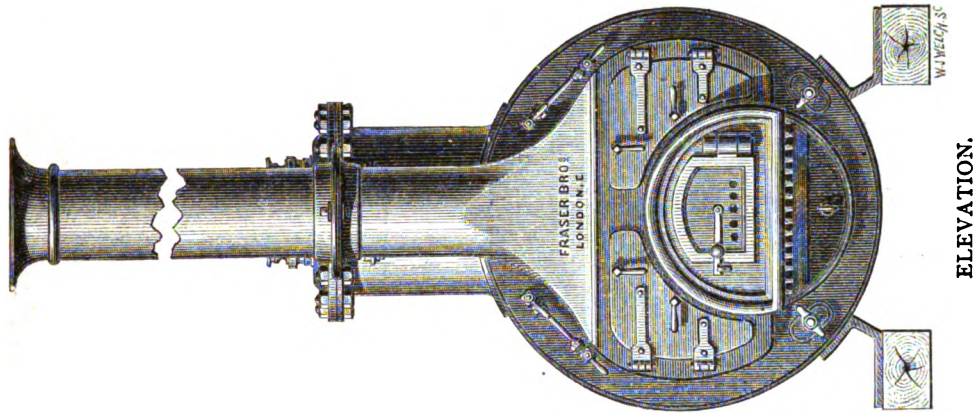
VERTICAL STEAM BOILERS.



SEE PAGE 507, OR FOR FULL PARTICULARS, TO
FRASER BROTHERS,
 BROMLEY-BY-BOW, LONDON, E.

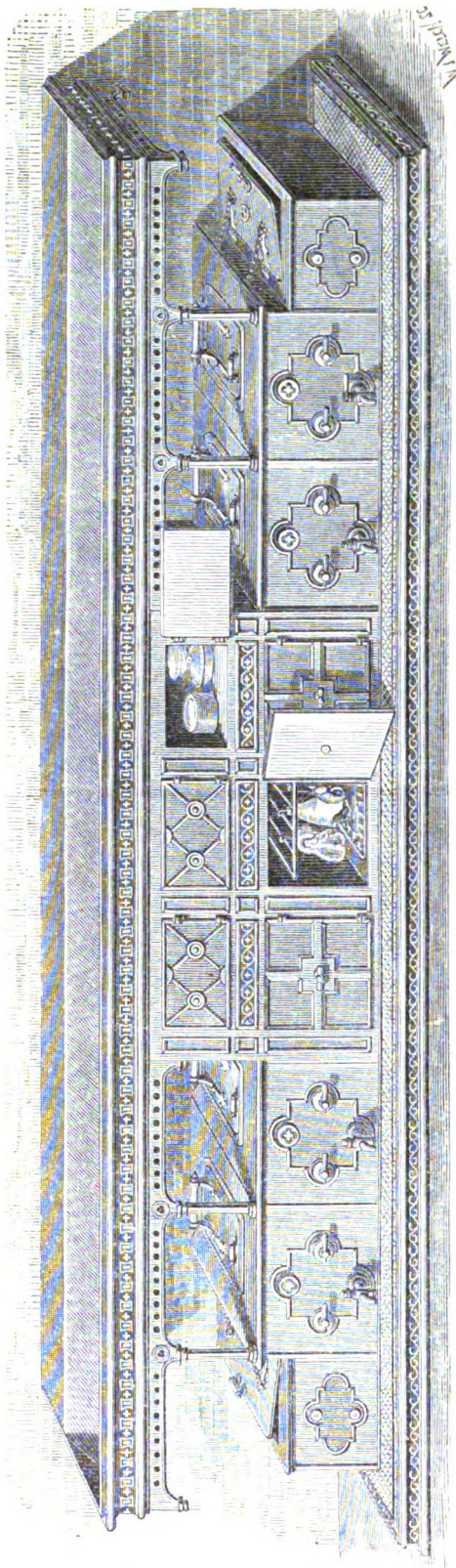
RETURN TUBE BOILER.

DESIGNED FOR SMALL STEAM-VESSELS, TUGS, LAUNCHES, AND GENERAL PORTABLE WORK.



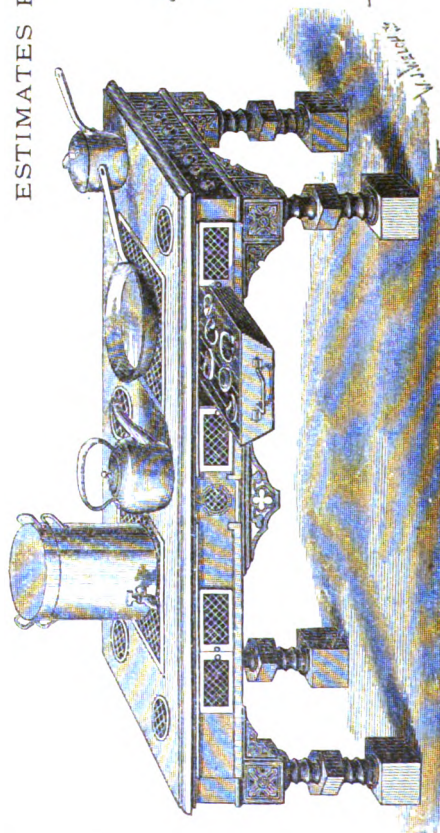
FOR PRICES AND SPECIAL DESIGNS, APPLY TO
FRASER BROTHERS,
 BROMLEY-BY-BOW, LONDON, E.

FRASER BROTHERS' COMBINED GAS AND STEAM COOKING APPARATUS.

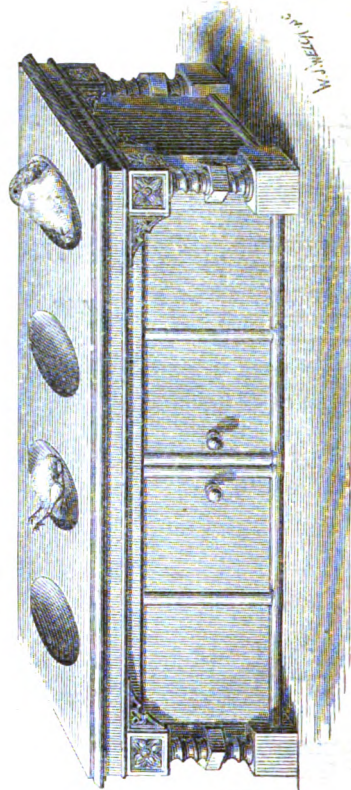


COOKING APPARATUS OF EVERY DESCRIPTION DESIGNED FOR LARGE ESTABLISHMENTS, AND FIXED COMPLETE.

ESTIMATES PREPARED.

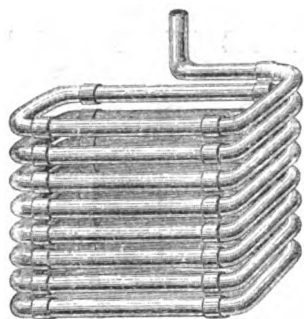


GAS TABLE FOR BOILING, STEWING, GRILLING, OR FRYING.

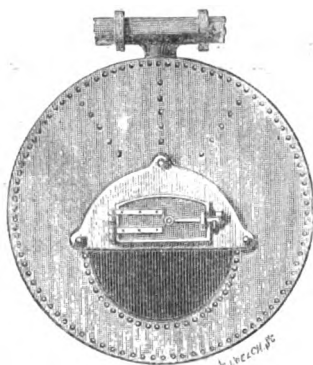


STEAM CUTTING-UP TABLE, WITH HOT CLOSET UNDER FOR PLATES.

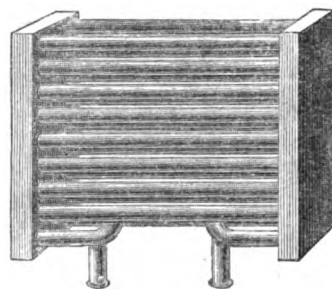
FRASER BROTHERS,
COMMERCIAL ROAD EAST.



WROUGHT-IRON STEAM COILS.

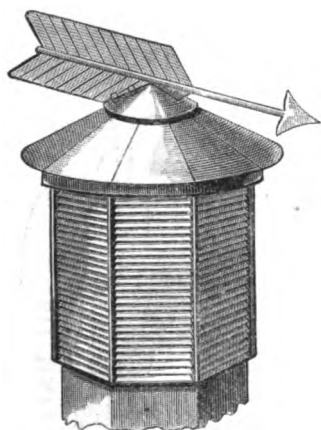


HOT-WATER BOILERS OF EVERY DESIGN.

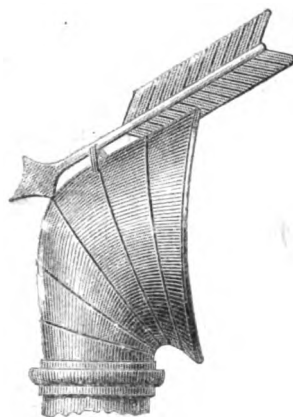
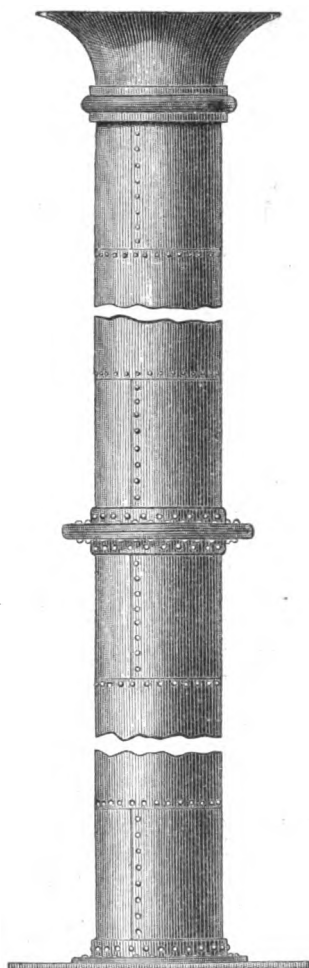


CAST-IRON HOT WATER COILS.

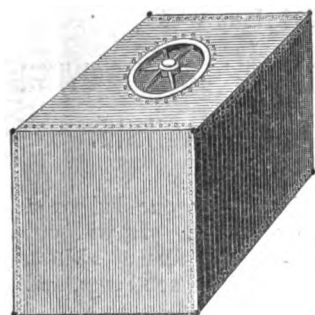
HEATING AND DRYING APPARATUS OF EVERY DESCRIPTION.



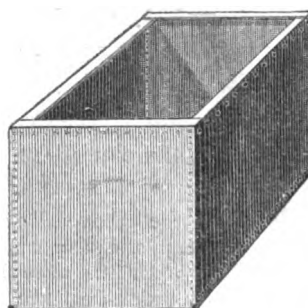
PUBLIC BUILDINGS
VENTILATED.



WAREHOUSES AND FAC-
TORIES VENTILATED.



MANUFACTURERS OF IRON TANKS



AND IRON WATER-CISTERNS.

CONTRACTORS FOR IRONWORK AND ERECTORS OF IRON BUILDINGS.

FRASER BROTHERS,
98, COMMERCIAL ROAD EAST.